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DATE MAILED: 12/22/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/662,540	09/15/2003	Wolfgang Roethig	NEC0250US	2264
33031	.7590 12/22/2004		EXAMINER	
	L STEPHENSON ASC	DINH,	DINH, PAUL	
4807 SPICEWOOD SPRINGS RD. BLDG. 4, SUITE 201			ART UNIT	PAPER NUMBER
AUSTIN, TX 78759			2825	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/662,540	ROETHIG, WOLFGANG
Office Action Summary	Examiner	Art Unit
	Paul Dinh	2825
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 1) ⊠ Responsive to communication(s) filed on 15 Section 15 Section 15 Section 15 Section 16 Section	action is non-final.	secution as to the merits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.
Disposition of Claims		
 4) Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-36 are subject to restriction and/or expressions. 		·
Application Papers	v	
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Examiner 9) The specification is objected to by the Examiner 10) The oath or declaration is objected to by the Examiner 9) The specification is objected to by the Examiner 11) The specification is objected to by the Examiner 12) The specification is objected to by the Examiner 13) The specification is objected to by the Examiner 14) The specification is objected to by the Examiner 15) The specification is objected to by the Examiner 16) The specification is objected to by the Examiner 17) The specification is objected to by the Examiner 18) The specification is objected to by the Examiner 19) The specification is objected to by the Examiner 19) The specification is objected to by the Examiner 11) The specification is objected to by the Examiner 11) The specification is objected to by the Examiner 12) The specification is objected to by the Examiner 13) The specification is objected to by the Examiner 14) The specification is objected to by the Examiner 15) The specification is objected to by the Examiner 16) The specification is objected to by the Examiner 17) The specification is objected to by the Examiner 18) The specification is objected to by the Examiner 19) The specification is objected to by the Examiner 19) The specification is objected to by the Examiner 19) The specification is objected to by the Examiner 19) The specification is objected to by the Examiner 19) The specification is objected to by the Examiner 19) The specification is objected to by the Examiner 19) The specification is objected to by the Examiner 19) The specification is objected to by the Examiner 19) The specification is objected to be the	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa	

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Election/Restrictions

This application contains claim groups directed to the following patentably distinct species of the claimed invention:

Group	Invention	
I.	Claims 1-10, 19-26, and 27-34, drawn to interconnect model not a lumped capacitance	
	model, calculating an effective capacitance of the interconnect model to be inversely	
	proportional to a voltage at the driving point node of the interconnect model.	
II.	Claims 11-16 and 36, drawn to scaling first/second capacitances by ratio(s) of voltage	
	across the first/second capacitance to a driving point voltage, and summing first and	
	second capacitance	
III.	Claims 17-18 drawn to multiplying capacitances, dividing products, and summing	
	product with interconnect model not a lumped capacitance model.	
IV.	Claim 35 drawn to reducing an interconnect model to a lumped capacitance model and	
•	calculating a effective capacitance by setting a voltage across the effective capacitance	
	equal to a voltage at the driving point node of the interconnect model; and	

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of

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the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Applicant is advised that cancellation of non-elected claims is required.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Dinh whose telephone number is 571-272-1890. The examiner can normally be reached on Monday to Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Dinh

Patent Examiner

Paul Dinh 12/20/04